



20<sup>th</sup> Symposium of the International Scientific Centre of Fertilizers (CIEC)

## **Towards new concepts in nutrient management: urban, suburban and alternative agriculture**

Cayo Santa Maria, Cuba. 17-19 April 2012

### **Second announcement**

Jointly organized by

Universidad Central Marta Abreu de Las Villas and CIEC-International Scientific Centre of Fertilizers

<http://ciec2012.ibp.co.cu>



Will be held together with two scientific meetings in the field of Agriculture and Plant Sciences:

**X International Symposium on Plant Biotechnology**  
**International Conference AGROCENTRO 2012**

### **Scopes of the Symposium:**

The 20th International Symposium of CIEC focuses on the special challenges of urban and suburban agriculture. Due to increasing food demand on the one hand and decreasing fertility of many sites on the other hand, urban and suburban agriculture gained importance. The aim of the 20<sup>th</sup> International Symposium of CIEC is to bring together and provide a forum for discussion for scientists from all over the world involved on research, development and application of technologies for plant nutrition. During the symposium different sessions should be held in order to cover the most important subjects relevant to nutrient management in urban, suburban and alternative agriculture.

### **Sessions:**

- I. Organic and inorganic fertilization in urban and suburban agriculture
- II. Fertilization aspects in horticulture plants, vegetables and non-food crops.
- III. Fertilization aspects in organic farming
- IV. Nutrient cycling with waste products and agronomical sustainability of their application
- V. Nutrient management and its implications on plant disease development and control.
- VI. Plant - beneficial microorganisms interactions

## **Preliminary Program**

### **Monday, 16 April 2012**

17.00 - Arrival of delegates from Havana  
17.00 - 20.00 Registration  
20.00 – Come together

### **Tuesday, 17 April 2012**

9.00 – 9.30 Opening Ceremony (together with the X International Symposium on Plant Biotechnology and the International Conference AGROCENTRO 2012) - Rector of Central University of Las Villas.  
Introduction into the 20<sup>th</sup> CIEC symposium – Prof. Ewald Schnug – President of CIEC

### **Session I: Organic and inorganic fertilization in urban and suburban agriculture**

Chair: Francesco Montemurro (CRA SSC, Italy); NN

09.30 – 10.15 Keynote conference "Simplified soilless systems to promote and improve the production of vegetables in urban and peri-urban areas".  
(Giorgio Gianquinto, Università di Bologna, Italy)

10.15 – 11.00 Oral presentations (15 min each)

11.00 – 11.30 Coffee & tea

11.30 – 13.00 Oral presentations

13.00 – 14.30 Lunch and poster viewing

**Session II: Fertilization aspects in horticulture plants, vegetables and non-food crops.**

Chair: Zhengyi Hu (GUCAS Beijing, China); NN

14.30 – 15.15 Keynote conference "The enigma of fertiliser P utilisation".

(Ewald Schnug, JKI Braunschweig, Germany)

15.15 – 16.00 Keynote conference "Towards new aspects of fertilization in food and non-food crops" (Francesco Montemurro, CRA SSC, Italy)

16.00 – 17.00 Oral presentations (15 min each)

**Wednesday, 18 April, 2012**

**Session III: Fertilization aspects in organic farming**

Chair: Silvia Haneklaus (JKI Braunschweig, Germany); Giraldo Martín (EIH; Cuba)

09.00 – 09.45 Keynote conference "The challenge of closing nutrient and cracking hazard cycles in urban organic farming" (Gerold Rahmann, vTI Trenthorst, Germany)

09.45 – 10.30 Oral presentations (15 min each)

10.30 – 11.00 Coffee & tea

11.00 – 13.00 Oral presentations (15 min each)

13.00 – 14.30 Lunch and poster viewing

**Session IV: Nutrient cycling with waste products and agronomical sustainability of their application**

Chair: Bettina Eichler-Löbermann (Rostock University, Germany); NN

14.30 – 15.15 Keynote conference "Use of paper mill by-products in agriculture: Soil amendments and plant nutrient sources" (Noura Ziadi, Agriculture and Agri-Food, Canada)

15.00 – 17.00 Oral presentations (15 min each)

19.00 – Conference dinner

**Thursday, 19 November 2012**

**Session V: Nutrient management and its implications on plant disease development and control.**

Chair: Elio Jiménez (UCLV, Santa Clara, Cuba); NN

09.00 – 09.45 Keynote conference "Sulphur fertilization and plant diseases"

(Elke Bloem, JKI Braunschweig, Germany)

09.45 – 10.30 Oral presentations (15 min each)

10.30 – 11.00 Coffee& tea

11.00 – 13.00 Oral presentations(15 min each)

13.00 – 14.30 Lunch and poster viewing

### **Session VI: Plant - beneficial microorganisms interactions**

Chair: Christian Hera (RA, Bucharest, Romania), Yelenys Alvarado (UCLV, Santa Clara, Cuba)

14.30 – 15.15 Keynote conference "Residues from anaerobic digestion - fertilizer value or pathogen risk?" (Heribert Insam, University Innsbruck, Austria)

15.00 – 17.00 Oral presentations (15 min each)

17.00 – 17.30 Closing Ceremony

### **Symposium host:**

- Institute of Plant Biotechnology (IBP). Universidad Central Marta Abreu de las Villas. Santa Clara, Cuba.

#### *In cooperation with:*

- Faculty of Agriculture. Universidad Central Marta Abreu de las Villas. Santa Clara, Cuba.
- Instituto Nacional de Investigaciones en Viandas Tropicales (INIVIT). Cuban Ministry of Agriculture.
- Estación Experimental de Pastos y Forrajes "Indio Hatuey". Universidad de Matanzas. Cuba

### **Registration fees:**

The full registration fee is 250 CUC (aprox. 200 EURO) and the student's registration fee is 150 CUC (aprox 120 EURO). The full registration fee includes the abstract and program book, conference materials and excursions to urban and suburban farms.

### **Registration:**

Please use the electronic registration form at the Symposium website: <http://ciec2012.ibp.co.cu> or send to the Symposium secretary by e-mail: [ciec2012@ibp.co.cu](mailto:ciec2012@ibp.co.cu)

### **Conference language:**

Official languages at the conference are English and Spanish. However, abstracts and full papers selected for publication in the Congress Proceedings have to be submitted in English. No simultaneous translation will be available.

**Abstract:**

An abstract of not more than 300 words should be submitted in English to the organizers by March 15, 2012 by e-mail to the Symposium secretary ([ciec2012@ibp.co.cu](mailto:ciec2012@ibp.co.cu)) or via the Symposium website: <http://ciec2012.ibp.co.cu>. The organizers will inform you about the acceptance of the paper for the symposium. Please, indicate whether you would like to present an oral presentation of about 20 minutes or a poster.

**Full papers:**

Full papers will be published in the conference proceedings. Selected papers will be published in a special issue of Landbauforschung - vTI Agriculture and Forestry Research.

**Symposium venue:**

Hotel Barcelo Cayo Santa Maria Beach & Colonial Resort\*\*\*\*\*, located at Jardines del Rey archipelago in the north of Cuba, in an area declared as Biosphere Reserve. It is 10 km (5 min) away from Las Brujas local airport, 50 km from the center of Caibarién city, and 116 km from Santa Clara International Airport (middle of Cuba) (90 min).



The official travel agency Gaviota Tours S.A. offers different options that include:

- Transfer from airport to hotel in Havana
- Accommodation in Havana
- Transportation Havana- Cayo Santa María-Havana
- Accommodation in Hotel Barceló Cayo Santa María Beach & Colonial Resort\*\*\*\*\*

Barceló Cayo Santa María	Double Room	Single Room
Plan	All inclusive	All inclusive
Barceló Cayo Santa María 5 Stars *****	67,00 CUC/day	80,00 CUC/day

Hotels in Havana	Double Room	Single Room
Plan	Breakfast and dinner included	Breakfast and dinner included
Kohly 3*	24,00	35,00
Be live Panorama 4*	52,00	66,00
Occidental Miramar 4*	50,00	66,00
Barceló Habana Ciudad 5*	64,00	79,00

*Prices are in CUC (for an updated exchange rate visit the web site of Cuban National Bank (<http://www.bc.gov.cu/>))*

#### **Gaviota Tours S.A. Travel Agency**

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Ave 47 No 2833 entre 28 y 34, Reparto Kohly, Playa

La Habana, Cuba

E-mail: [jefe.comercial.te@gaviotatours.cu](mailto:jefe.comercial.te@gaviotatours.cu)

[comercial1.te@gaviotatours.cu](mailto:comercial1.te@gaviotatours.cu)

Telephone: (537) 2079466 Fax: (537) 2044111

#### **Visa:**

Visa is required for citizens of most countries; therefore participants should contact Cuban Embassies or Consulates in their countries to obtain a touristic visa. Upon request the symposium secretariat can send an official invitation.